

# Ethernet Cable Kit for UDC 2500/3200/3500

**Document Number:** 51-52-33-143

**Effective:** 2/07

**Supersedes:** 8/13/04

## Summary

This kit lets you connect an Ethernet cable from your UDC controller to a hub or PC.

## Contents

1 Ethernet RJ45 Cable, 2 Tie Wraps

**Table 1 UDC2500 or UDC3200 procedure**

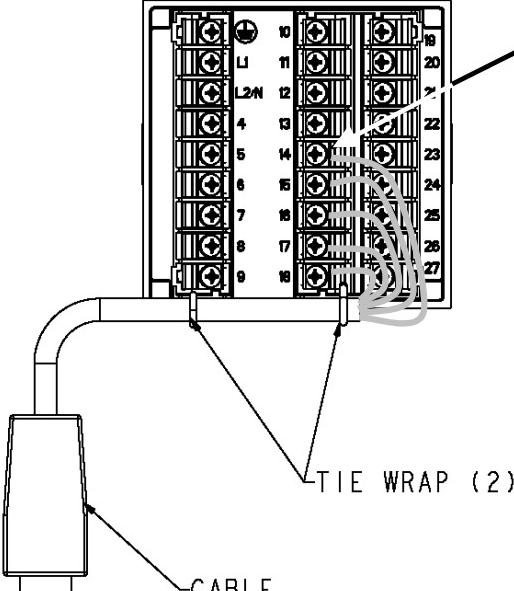
| Step         | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |              |                   |                    |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|--------------------|-------------------|--------------------|-------------|--------|------------|--------|--------|-------------|-----|--------|---|-----|-------------|-----|--------------|---|-----|-------------|-----|--------|---|-----|-------------|-----|--------------|---|-----|
| 1            |  <p>Figure 1 UDC2500/3200 terminal connections</p> <p>If you have:<br/>MDI-compliant hub with straight-through cable or<br/>PC with crossover cable<br/>then make these connections:</p> <table><thead><tr><th>UDC Terminal</th><th>UDC Signal Name</th><th>Wire Color</th><th>RJ45 Socket Pin #</th><th>Hub/PC Signal Name</th></tr></thead><tbody><tr><td>Position 14</td><td>Shield</td><td>Black/Bare</td><td>Shield</td><td>Shield</td></tr><tr><td>Position 15</td><td>RX-</td><td>Orange</td><td>6</td><td>TX-</td></tr><tr><td>Position 16</td><td>RX+</td><td>White/Orange</td><td>3</td><td>TX+</td></tr><tr><td>Position 17</td><td>TX-</td><td>Brown</td><td>2</td><td>RX-</td></tr><tr><td>Position 18</td><td>TX+</td><td>White/Brown</td><td>1</td><td>RX+</td></tr></tbody></table> | UDC Terminal | UDC Signal Name   | Wire Color         | RJ45 Socket Pin # | Hub/PC Signal Name | Position 14 | Shield | Black/Bare | Shield | Shield | Position 15 | RX- | Orange | 6 | TX- | Position 16 | RX+ | White/Orange | 3 | TX+ | Position 17 | TX- | Brown  | 2 | RX- | Position 18 | TX+ | White/Brown  | 1 | RX+ |
| UDC Terminal | UDC Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Wire Color   | RJ45 Socket Pin # | Hub/PC Signal Name |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 14  | Shield                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Black/Bare   | Shield            | Shield             |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 15  | RX-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Orange       | 6                 | TX-                |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 16  | RX+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | White/Orange | 3                 | TX+                |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 17  | TX-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Brown        | 2                 | RX-                |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 18  | TX+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | White/Brown  | 1                 | RX+                |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| 2            | If you have PC with straight-through cable then make these connections: <table><thead><tr><th>UDC Terminal</th><th>UDC Signal Name</th><th>Wire Color</th><th>RJ45 Socket Pin #</th><th>PC Signal Name</th></tr></thead><tbody><tr><td>Position 14</td><td>Shield</td><td>Black/Bare</td><td>Shield</td><td>Shield</td></tr><tr><td>Position 15</td><td>RX-</td><td>Brown</td><td>2</td><td>TX-</td></tr><tr><td>Position 16</td><td>RX+</td><td>White/Brown</td><td>1</td><td>TX+</td></tr><tr><td>Position 17</td><td>TX-</td><td>Orange</td><td>6</td><td>RX-</td></tr><tr><td>Position 18</td><td>TX+</td><td>White/Orange</td><td>3</td><td>RX+</td></tr></tbody></table>                                                                                                                                                                                                         | UDC Terminal | UDC Signal Name   | Wire Color         | RJ45 Socket Pin # | PC Signal Name     | Position 14 | Shield | Black/Bare | Shield | Shield | Position 15 | RX- | Brown  | 2 | TX- | Position 16 | RX+ | White/Brown  | 1 | TX+ | Position 17 | TX- | Orange | 6 | RX- | Position 18 | TX+ | White/Orange | 3 | RX+ |
| UDC Terminal | UDC Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Wire Color   | RJ45 Socket Pin # | PC Signal Name     |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 14  | Shield                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Black/Bare   | Shield            | Shield             |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 15  | RX-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Brown        | 2                 | TX-                |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 16  | RX+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | White/Brown  | 1                 | TX+                |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 17  | TX-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Orange       | 6                 | RX-                |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 18  | TX+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | White/Orange | 3                 | RX+                |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| 3            | Secure cable to controller by attaching tie wraps through the holes in the controller flange.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |              |                   |                    |                   |                    |             |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |

Table 2 UDC3500 procedure

| Step         | Action                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |              |                   |                    |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------|--------------------|-------------------|--------------------|------------|--------|------------|--------|--------|-------------|-----|--------|---|-----|-------------|-----|--------------|---|-----|-------------|-----|--------|---|-----|-------------|-----|--------------|---|-----|
| 1            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                   |                    |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
|              | Figure 2 UDC3500 terminal connections                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                   |                    |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
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| UDC Terminal | UDC Signal Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Wire Color   | RJ45 Socket Pin # | Hub/PC Signal Name |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 4   | Shield                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Black/Bare   | Shield            | Shield             |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 24  | RX-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Orange       | 6                 | TX-                |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 25  | RX+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | White/Orange | 3                 | TX+                |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 26  | TX-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Brown        | 2                 | RX-                |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 27  | TX+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | White/Brown  | 1                 | RX+                |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| 2            | If you have PC with straight-through cable then make these connections:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |              |                   |                    |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
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| Position 4   | Shield                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Black/Bare   | Shield            | Shield             |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 24  | RX-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Brown        | 2                 | TX-                |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 25  | RX+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | White/Brown  | 1                 | TX+                |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 26  | TX-                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Orange       | 6                 | RX-                |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| Position 27  | TX+                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | White/Orange | 3                 | RX+                |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |
| 3            | Secure cable to controller by attaching tie wraps through the holes in the controller flange.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |              |                   |                    |                   |                    |            |        |            |        |        |             |     |        |   |     |             |     |              |   |     |             |     |        |   |     |             |     |              |   |     |

### Warranty/Remedy

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